Additional fund for R.K.Hegade nagara Samudaya Bhavan to extend compound and grills

First and Final Bill

Quality Control Reports

QC ABSTRACT

NAME OF WORK: Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Block(400*150*200)	BLOCK DENSITY	One Test		1	1
		WATER ABSORPTION	One Test		1	1
		DIMENSION ANALYSIS	One Test		1	1
		COMPRESSIVE STRENGTH	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

9	PCC(M20)	Compressive Strength(7days and - 28days)	5 set /51-100 cum	76.22	10	10
10	Chain Link Fencing	Average Thickness	One Test		1	1
		Dia of line wire	One Test		1	1
		Mesh size	One Test		1	1
		Nominal dia of mesh wire	One Test		1	1
		Bend Test	One Test		1	1
11	M.S Block Pipe	Yeild Stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
12	M.S. Rectangular pole	Weight/Meter	One Test		1	1
		Yeild stress	One Test		1	1
		Tensile Strength	One Test		1	1
		Elongation Percentage	One Test		1	1
		Bend Test	One Test		1	1

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : **CP-2021-06-26-48** **Date: 27-05-20**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 24-05-20

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5
IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6
IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6

Date of test : 25-05-20

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.55	–
2	Finess by Air permeablity method (m^2/kg,Min)	287.5	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig. Date BANGALORE

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2021-06-26-48** **Date: 22-06-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	24-05-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	25-05-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-06-26-48** **Date: 27-05-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	24-05-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	423	423	2.8	97.2	90-100
3	20 mm	5852	6275	41.8	58.2	30-70
4	10 mm	4232	10507	70.0	30.0	10-35
5	4.75 mm	4225	14732	98.2	1.8	0-5
6	Pan	268	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-06-26-48** **Date: 27-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.5	
3	Specific Gravity	2.68	–
4	Bulk Density(Loose) (Kg/l)	1.56	–
5	Bulk Density(Compacted) (Kg/l)	1.59	–
6	Water Absorption(%)	0.21	–

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-06-26-48** **Date: 26-05-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	24-05-20
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	24-05-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	255	255	5.1	94.9	90-100
3	10 mm	2789	3044	60.9	39.1	25-55
4	4.75 mm	1545	4589	91.8	8.2	0-10
5	Pan	411	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2021-06-26-48** **Date: 26-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	13.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.53	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.22	–
7	Aggregate crushing Value(%)	24.1	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2021-06-26-48** **Date: 26-05-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	24-05-20
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	24-05-20
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2021-06-26-48** **Date: 26-05-20**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-06-26-48** **Date: 04-06-20**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 31-05-20

Sample Type /Size : Precast Cover Slab (100mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 31/05/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	100.9	22.5	21.0	26.2
2	Cover Slab-2	75.49	100.52	1.122	4475	102.3	22.9	21.3	26.6
3	Cover Slab-3	75.50	100.51	1.118	4476	101.5	22.7	21.1	26.4

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2021-06-26-48** **Date: 04-06-20**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 31-05-20

Sample Type /Size : Precast Cover Slab (250mm)

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 31/05/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	590.9	18.7	17.4	21.8
2	Cover Slab-2	200.49	250.52	3.122	31564	592.3	18.8	17.5	21.8
3	Cover Slab-3	200.50	250.51	3.118	31567	591.5	18.7	17.4	21.8

The results obtained are satisfactory as per standard requirements.

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2021-06-26-48** **Date: 31-05-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	26-05-20
Sample Type/Size	:	Solid concrete blocks size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	26-05-20

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185(Part 1) :2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	404	151	201	12262	22.009	1794.9	1888.3	Not less than 1800Kg/m^3
2	400	149	201	11980	23.154	1932.8		
3	404	151	202	12323	23.872	1937.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185(Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	33.91	32.25	4.89	4.25	Shall not be more than 10% by mass
2	33.57	32.14	4.28		
3	33.44	32.24	3.59		

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Lab ID : CP-2021-06-26-48 Date: 31-05-20

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	149	203	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	402	152	199	
3	402	151	202	
4	399	150	199	
5	401	150	201	
6	401	151	203	
7	403	153	199	
8	402	150	201	
9	403	150	202	
10	401	151	199	
11	402	151	201	
12	403	150	199	
13	402	151	200	
14	400	152	199	
15	401	150	202	
16	400	151	200	
17	403	152	200	
18	401	149	203	
19	403	153	203	
20	403	153	199	
Average of 20	**402**	**151**	**201**	

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Lab ID : **CP-2021-06-26-48** **Date: 31-05-20**

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	400	149	59679	290.6	4.9	4.8
2	402	152	60963	290.6	4.8	
3	402	151	60940	288.5	4.7	
4	399	150	60072	288.5	4.8	
5	401	150	60129	284.9	4.7	
6	401	151	60547	288.1	4.8	
7	403	153	61509	286.7	4.7	
8	402	150	60284	285.5	4.7	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	**Minimum average**	**Minimum Individual units.**
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

* The Results Obtained are Satisfactory as per Standard Requirements

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID	:	**CP-2021-06-26-48** **Date: 29-05-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	24-05-20
Sample Type /Size	:	CC Kerb Stone/ 450*165*400mm
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	25/05/2020

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 10/06/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	10/06/2020	150.45 X 151.72 X 149.81	22828	**8.564**	417.2	18.3	18.5
2	PCC	M20	03/06/2020	10/06/2020	151.44 X 150.91 X 151.89	22854	**8.361**	425.6	18.6	
3	PCC	M20	03/06/2020	10/06/2020	151.62 X 150.36 X 149.71	22797	**8.854**	421.2	18.5	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 01/07/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	01/07/2020	149.49 X 150.17 X 149.15	22449	**8.819**	534.6	23.8	23.2
2	PCC	M20	03/06/2020	01/07/2020	149.21 X 149.63 X 151.57	22326	**8.311**	493.2	22.1	
3	PCC	M20	03/06/2020	01/07/2020	151.21 X 150.01 X 151.18	22683	**8.133**	538.6	23.7	

The results obtained are satisfactory as per standard requirements.

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Lab ID : **CP-2021-06-26-48**

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Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	10/06/2020	149.68 X 149.93 X 150.39	22441	**8.564**	421.2	18.8	18.4
2	PCC	M20	03/06/2020	10/06/2020	149.31 X 149.28 X 150.03	22289	**8.361**	408.7	18.3	
3	PCC	M20	03/06/2020	10/06/2020	149.63 X 150.44 X 149.37	22511	**8.854**	408.8	18.2	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 01/07/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	01/07/2020	149.44 X 149.31 X 150.12	22312	**8.819**	532.9	23.9	23.5
2	PCC	M20	03/06/2020	01/07/2020	151.86 X 152.00 X 149.49	23082	**8.311**	525.4	22.8	
3	PCC	M20	03/06/2020	01/07/2020	151.39 X 150.89 X 150.41	22843	**8.133**	548.2	24.0	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 10/06/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	10/06/2020	149.52 X 150.75 X 149.31	22540	**8.564**	421.9	18.7	18.8
2	PCC	M20	03/06/2020	10/06/2020	149.29 X 151.60 X 151.11	22632	**8.361**	425.8	18.8	
3	PCC	M20	03/06/2020	10/06/2020	150.49 X 150.27 X 150.32	22613	**8.854**	429.2	19.0	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 01/07/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	01/07/2020	151.05 X 150.91 X 150.03	22794	**8.819**	540.6	23.7	23.4
2	PCC	M20	03/06/2020	01/07/2020	151.35 X 150.54 X 151.11	22785	**8.311**	519.2	22.8	
3	PCC	M20	03/06/2020	01/07/2020	149.76 X 151.74 X 150.82	22724	**8.133**	538.8	23.7	

The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 10/06/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	10/06/2020	149.48 X 150.26 X 149.57	22461	**8.564**	419.1	18.7	18.3
2	PCC	M20	03/06/2020	10/06/2020	151.35 X 150.06 X 151.77	22712	**8.361**	414.9	18.3	
3	PCC	M20	03/06/2020	10/06/2020	149.86 X 151.67 X 149.95	22729	**8.854**	411.4	18.1	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಧೀಕ್ಷಕಂತರರು
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-26

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R KARTHIK RECHAN
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****End of Report****

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 01/07/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	01/07/2020	151.22 X 149.48 X 151.13	22604	**8.819**	520.9	23.0	23.1
2	PCC	M20	03/06/2020	01/07/2020	151.80 X 149.96 X 151.78	22765	**8.311**	509.4	22.4	
3	PCC	M20	03/06/2020	01/07/2020	150.68 X 149.89 X 151.84	22585	**8.133**	540.6	23.9	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-26

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2021-06-26-48** **Date: 10/06/2020**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 05-06-20

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/06/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	10/06/2020	151.82 X 150.87 X 150.48	22904	**8.564**	431.6	18.8	18.6
2	PCC	M20	03/06/2020	10/06/2020	150.64 X 149.61 X 151.75	22537	**8.361**	414.9	18.4	
3	PCC	M20	03/06/2020	10/06/2020	151.26 X 149.06 X 149.96	22547	**8.854**	418.8	18.6	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-06-26-48** **Date: 01/07/2020**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	05-06-20
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	01/07/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/06/2020	01/07/2020	149.06 X 151.48 X 149.01	22581	**8.819**	535.9	23.7	23.0
2	PCC	M20	03/06/2020	01/07/2020	151.11 X 149.32 X 149.12	22563	**8.311**	496.7	22.0	
3	PCC	M20	03/06/2020	01/07/2020	150.15 X 151.80 X 149.04	22793	**8.133**	528.4	23.2	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2021-06-26-48**	**Date: 04-06-20**
Agency	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills	
Project Name	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.	
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21	
Date of Receipt	:	02-06-20	
Type of Sample	:	M.S Block Pipe	
Reference to BIS codes	:	IS:1608-2005(RA 2011), IS 1599-2012.	
Date of testing	:	02-06-20	

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, 14 GAUGE

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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ಸಹಾಯಕ ಆಯುಕ್ತರ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-26

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID : **CP-2021-06-26-48** **Date: 04-06-20**

Project Name : Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills

Agency : Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.

Customer's Reference : BBMP/EE/BTP/WO/209/2020-21

Date of Receipt : 02-06-20

Type of Sample : M.S Rectangular Pole(65X65X6)mm

Reference to BIS codes : IS:1608-2005(RA 2011), IS 1599-2012.

Date of testing : 02-06-20

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	5.8 Kg/m	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	Should not Crack or fracture	Satisfactory

The results obtained are satisfactory as per standard requirements.

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TEST RESULTS FOR CHAIN LINK FENCING

Lab ID	:	**CP-2021-06-26-48** **Date: 04-06-20**
Project Name	:	Additional Fund For R.K. Hegade Nagara Samudaya Bhavan to Extend Compound and Grills
Agency	:	Sri.K R Santhosh Kumar, # No:04, Samrudhi, AVR Block, 1st A Main, Dhanalakshmi Layout, Virupakshapura, Bangalore-560097.
Customer's Reference	:	BBMP/EE/BTP/WO/209/2020-21
Date of Receipt	:	02-06-20
Type of Sample	:	Chain Link Fencing
Reference to BIS codes	:	IS 2062:2011
Date of testing	:	02-06-20

TESTS RESULT FOR WIRE MESH		
SL.NO	**Description**	**Result**
1	**Average Thickness in mm**	4.04
2	**Dia of linewire in mm**	3.14
3	**Mesh size in mm**	50.01
4	**Nominaldia of meshwire in mm**	2.52
5	**Bend Test**	Satisfactory

* The results obtained are satisfactory as per standard requirements.

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